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## APPENDIX I:

## CURRENT CLAIMS:

1. A tricyclic benzoylpyrazole compound of formula I

where:

X is a bond;

Y together with the two carbons to which it is attached forms a 1,2-isoxazole ring which is saturated, partially saturated or unsaturated;

 $R^1$ ,  $R^2$ ,  $R^6$ ,  $R^7$  are hydrogen,  $C_1$ — $C_6$ —alkyl,  $C_1$ — $C_6$ —haloalkyl,  $C_1$ — $C_6$ —alkoxy or  $C_1$ — $C_6$ —haloalkoxy;

 $R^3$  is halogen,  $C_1$ — $C_6$ —alkyl,  $C_1$ — $C_6$ —haloalkyl,  $C_1$ — $C_6$ —alkoxy or  $C_1$ — $C_6$ —haloalkoxy;

Is hydrogen, nitro, halogen, cyano,  $C_1$ — $C_6$ —alkyl,  $C_1$ — $C_6$ —haloal-kyl,  $C_1$ — $C_6$ —alkoxy,  $C_1$ — $C_6$ —haloalkoxy,  $C_1$ — $C_6$ —alkylthio,  $C_1$ — $C_6$ —haloalkylsulfinyl,  $C_1$ — $C_6$ —haloalkylsulfinyl,  $C_1$ — $C_6$ —alkylsulfonyl,  $C_1$ — $C_6$ —haloalkylsulfonyl, aminosulfonyl,  $C_1$ — $C_6$ —alkyl) aminosulfonyl,  $C_1$ — $C_6$ —alkyl) aminosulfonyl,  $C_1$ — $C_6$ —alkyl) aminosulfonyl,  $C_1$ — $C_6$ —alkylsulfonyl) amino,  $C_1$ — $C_6$ —haloalkylsulfonyl) amino,  $C_1$ — $C_6$ —haloalkylsulfonyl) amino or  $C_1$ — $C_6$ —alkyl)— $C_1$ — $C_1$ 

 $R^5$  is hydrogen,  $C_1-C_6$ -alkyl or halogen;

R8 is hydrogen,  $C_1-C_6$ -alkyl,  $C_1-C_6$ -haloalkyl,  $C_1-C_6$ -alkylcarbonyl, formyl,  $C_1-C_6$ -alkoxycarbonyl,  $C_1-C_6$ -haloalkoxycarbonyl,  $C_1-C_6$ -alkylsulfonyl or  $C_1-C_6$ -haloalkylsulfonyl;

1 is 0, 1 or 2;

R<sup>9</sup> is a radical IIa

lla

where

- $R^{10}$  is hydroxyl, mercapto, halogen,  $OR^{13}$ ,  $SR^{13}$ ,  $SO_2R^{14}$ ,  $NR^{15}R^{16}$  or N-bonded heterocyclyl, where the heterocyclyl radical may be partially or fully halogenated and/or may carry one to three of the following radicals:
  - nitro, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_4$ -haloalkoxy;
- $R^{11}$  is hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -haloalkyl,  $C_3$ - $C_6$ -cycloalkyl, hydroxyl,  $C_1$ - $C_6$ -alkoxy or  $C_1$ - $C_6$ -haloalkoxy;
- $R^{12}$  is hydrogen, halogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -haloalkyl, hydroxyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkoxy,  $C_1$ - $C_6$ -alkylthio or  $C_1$ - $C_6$ -haloalkylthio;
- $R^{13}$  is  $C_1-C_6-alkyl$ ,  $C_3-C_6-alkenyl$ ,  $C_3-C_6-haloalkenyl$ ,  $C_3-C_6-alky-alkyl$ nyl,  $C_3-C_6$ -haloalkynyl,  $C_3-C_6$ -cycloalkyl,  $C_1-C_{20}$ -alkylcarbonyl,  $C_2-C_{20}$ —alkenylcarbonyl,  $C_2-C_6$ —alkynylcarbonyl,  $C_3-C_6$ —cycloalkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, C<sub>3</sub>-C<sub>6</sub>-alkenyloxycarbonyl, laminocarbonyl,  $C_3-C_6$ -alkenylaminocarbonyl,  $C_3-C_6$ -alkynylaminocarbonyl,  $N, N-di(C_1-C_6-alkyl)$  aminocarbonyl,  $N-(C_3-C_6-alke-alke-alkyl)$  $nyl)-N-(C_1-C_6-alkyl)$  aminocarbonyl,  $N-(C_3-C_6-a)$  $nyl)-N-(C_1-C_6-alkyl)$  aminocarbonyl,  $nyl)-N-(C_1-C_6-alkoxy)$  aminocarbonyl,  $N-(C_3-C_6-a)ky$  $ny1)-N-(C_1-C_6-alkoxy)$  aminocarbonyl,  $di(C_1-C_6-alkyl)$  aminothiocarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxyimino- $N-(C_1-C_6-alkylamino)imino-C_1-C_6-alkyl$  $C_1-C_6-alkyl$ ,  $N, N-di(C_1-C_6-alkylamino)imino-C_1-C_6-alkyl$ , where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halogenated and/or may carry one to three of the following groups:
  - cyano,  $C_1$ — $C_4$ —alkoxy,  $C_1$ — $C_4$ —alkylthio,  $di(C_1$ — $C_4$ —alkyl)amino,  $C_1$ — $C_4$ —alkylcarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $di(C_1$ — $C_4$ —alkyl)amino— $C_1$ — $C_4$ —alkoxycarbonyl, hydroxycarbonyl,  $C_1$ — $C_4$ —alkylaminocarbonyl,  $di(C_1$ — $C_4$ —alkyl)aminocarbonyl,  $di(C_1$ — $C_4$ —alkyl)aminocarbonyl, aminocarbonyl,  $C_1$ — $C_4$ —alkylcarbonyloxy or  $C_3$ — $C_6$ —cycloalkyl;
  - is phenyl, heterocyclyl, phenyl- $C_1$ - $C_6$ -alkyl, heterocyclyl- $C_1$ - $C_6$ -alkyl, phenylcarbonyl- $C_1$ - $C_6$ -alkyl, heterocyclylcarbonyl- $C_1$ - $C_6$ -alkyl, phenylcarbonyl, heterocyclylcarbonyl, phenoxy-carbonyl, phenyloxythiocarbonyl, heterocyclyloxycarbonyl,

heterocyclyloxythiocarbonyl, phenylaminocarbonyl,  $N-(C_1-C_6-alkyl)-N-(phenyl)$ aminocarbonyl, heterocyclylaminocarbonyl,  $N-(C_1-C_6-alkyl)-N-(heterocyclyl)$ aminocarbonyl, phenyl- $C_2-C_6-alkenyl$ carbonyl or heterocyclyl- $C_2-C_6-alkenyl$ carbonyl, where the phenyl and the heterocyclyl radical of the 18 lastmentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -haloalkoxy, heterocyclyl or N-bonded heterocyclyl, where the two lastmentioned substituents for their part may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_4$ -haloalkoxy;

 $R^{14}$  is  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -alkenyl,  $C_3$ - $C_6$ -haloalkenyl,  $C_3$ - $C_6$ -alkynyl,  $C_3$ - $C_6$ -cycloalkyl,  $C_1$ - $C_6$ -alkoxy,  $di(C_1$ - $C_6$ -alkyl)amino or  $di(C_1$ - $C_6$ -haloalkyl)amino, where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halogenated and/or may carry one to three of the following groups:

cyano,  $C_1$ — $C_4$ —alkoxy,  $C_1$ — $C_4$ —alkylthio,  $di(C_1$ — $C_4$ —alkyl)amino,  $C_1$ — $C_4$ —alkylcarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $di(C_1$ — $C_4$ —alkyl)amino— $C_1$ — $C_4$ —alkoxycarbonyl, hydroxycarbonyl,  $C_1$ — $C_4$ —alkylaminocarbonyl,  $di(C_1$ — $C_4$ —alkyl)aminocarbonyl, aminocarbonyl,  $C_1$ — $C_4$ —alkylcarbonyloxy or  $C_3$ — $C_6$ —cycloalkyl;

is phenyl, heterocyclyl, phenyl— $C_1$ — $C_6$ —alkyl, heterocyclyl— $C_1$ — $C_6$ —alkyl, phenoxy, heterocyclyloxy, where the phenyl and the heterocyclyl radical of the lastmentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_4$ -haloalkoxy;

R<sup>15</sup> is  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -alkenyl,  $C_3$ - $C_6$ -haloalkenyl,  $C_3$ - $C_6$ -alkynyl,  $C_3$ - $C_6$ -alkynyl,  $C_3$ - $C_6$ -cycloalkyl,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -alkenyloxy,  $C_3$ - $C_6$ -alkynyloxy,  $C_1$ - $C_6$ -alkyloamino or  $C_1$ - $C_6$ -alkyloamino, where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halo-

genated and/or may carry one to three radicals of the following group:

cyano,  $C_1$ — $C_4$ —alkoxy,  $C_1$ — $C_4$ —alkylthio,  $di(C_1$ — $C_4$ —alkyl)amino,  $C_1$ — $C_4$ —alkylcarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $C_1$ — $C_4$ —alkoxycarbonyl,  $di(C_1$ — $C_4$ —alkyl)amino— $C_1$ — $C_4$ —alkoxycarbonyl, hydroxycarbonyl,  $C_1$ — $C_4$ —alkylaminocarbonyl,  $di(C_1$ — $C_4$ —alkyl)aminocarbonyl,  $di(C_1$ — $C_4$ —alkyl)aminocarbonyl, or  $C_3$ — $C_6$ —cycloalkyl;

is phenyl, heterocyclyl, phenyl- $C_1$ - $C_6$ -alkyl or heterocyclyl- $C_1$ - $C_6$ -alkyl, where the phenyl or heterocyclyl radical of the four lastmentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano,  $C_1$ — $C_4$ —alkyl,  $C_1$ — $C_4$ —haloalkyl,  $C_1$ — $C_4$ —alkoxy or  $C_1$ — $C_4$ —haloalkoxy;

 $R^{16}$  is  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -alkenyl,  $C_3$ - $C_6$ -alkynyl or  $C_1$ - $C_6$ -alkylcarbonyl;

or an agriculturally useful salt thereof.

- 5. The tricyclic benzoylpyrazole compound of formula I defined in claim 1 where
  - R<sup>1</sup>, R<sup>2</sup> are hydrogen;
  - $R^3$  is  $C_1-C_6$ -alkyl;
  - $R^4$  is nitro, halogen,  $C_1-C_6$ -alkyl,  $C_1-C_6$ -haloalkyl,  $C_1-C_6$ -alkoxy,  $C_1-C_6$ -alkylthio or  $C_1-C_6$ -alkylsulfonyl;
  - R<sup>5</sup> is hydrogen;
  - l is 0 or 1.
- 6. The tricyclic benzoylpyrazole compound of formula I defined in claim 1 where
  - R<sup>10</sup> is hydroxyl;
  - $R^{11}$  is  $C_1-C_6$ -alkyl or  $C_3-C_6$ -cycloalkyl;
  - $R^{12}$  is hydrogen or  $C_1-C_6$ -alkyl.
- 7. A process for preparing the compound of formula I where  $R^{10}$  = halogen as claimed in claim 1, which comprises reacting a tricyclic benzoylpyrazole compound of formula I $\alpha$  (= I where  $R^{10}$  = hydroxy1),

$$R^{1}$$
  $R^{2}$   $R^{3}$   $R^{4}$   $R^{1}$   $R^{2}$   $R^{3}$   $R^{4}$   $R^{4}$ 

where the variables  $R^1$  to  $R^5$ ,  $R^{11}$  and  $R^{12}$ , X, Y and 1 are as defined in claim 1, with a halogenating agent.

8. A process for preparing the compound of formula I where  $R^{10} = OR^{13}$  as claimed in claim 1, which comprises reacting a tricyclic benzoylpyrazole compound of formula I $\alpha$  (= I where  $R^{10}$  = hydroxyl),

where the variables  $R^1$  to  $R^5$ ,  $R^{11}$  and  $R^{12}$ , X, Y and 1 are as defined in claim 1, with a compound of formula III

where the variable  $R^{13}$  is as defined in claim 1 and  $L^1$  is a nucleophilically replaceable leaving group.

9. A process for preparing the compound of formula I where  $R^{10}$  =  $OR^{13}$ ,  $SR^{13}$ ,  $NR^{15}R^{16}$  or N-bonded heterocyclyl as claimed in claim 1, which comprises reacting a compound of formula I $\beta$  ( $\equiv$  I where  $R^{10}$  = halogen),

where the variables  $R^1$  to  $R^5,\ R^{11}$  and  $R^{12},\ X,\ Y$  and 1 are as defined in claim 1, with a compound of formula  $IV\alpha,\ IV\beta,\ IV\gamma$  or  $IV\delta$ 

HOR $^{13}$  HSR $^{13}$  NHR $^{15}$ R $^{16}$  H(N-bonded heterocyclyl) IV $\alpha$  IV $\beta$  IV $\gamma$  IV $\delta$ 

where the variables  $R^{13}$  to  $R^{16}$  are as defined in claim 1, optionally in the presence of a base.

10. A process for preparing the compound of formula I where  $R^{10} = SO_2R^{14}$  as claimed in claim 1, which comprises reacting a compound of formula Iy ( $\equiv$  I where  $R^{10} = SR^{14}$ ),

$$R^{12}$$
  $Q$   $R^{1}$   $R^{2}$   $R^{3}$   $R^{12}$   $R^{10}$   $R^{10}$ 

where the variables  $R^1$  to  $R^5$ ,  $R^{11}$  and  $R^{12}$ , X, Y and l are as defined in claim 1, with an oxidizing agent.

11. A process for preparing the compound of formula I as claimed in claim 1, which comprises reacting a metalated pyrazole compound of formula V where M is a metal and  $R^{10}$  to  $R^{12}$  are as defined in claim 1, except for  $R^{10}$  = hydroxyl and mercapto, with a tricyclic benzoic acid compound of formula VI $\alpha$  where  $R^1$  to  $R^5$ , X, Y and l are as defined in claim 1 and  $L^2$  is a nucleophilically replaceable leaving group.

$$R^{12}$$
 $M$ 
 $R^{10}$ 
 $R^{10}$ 

12. A process for preparing the compound of formula I $\alpha$  (= I where  $R^{10}$  = hydroxyl) as claimed in claim 1, which comprises acylating a pyrazole of formula VII in which the variables  $R^{11}$  and  $R^{12}$  are as defined in claim 1

with an activated tricyclic benzoic acid of formula VI $\beta$  or with a tricyclic benzoic acid of formula VI $\gamma$ ,

where the variables  $R^1$  to  $R^5$ , X, Y and l are as defined in claim 1 and  $L^3$  is a nucleophilically replaceable leaving group, and rearranging the acylation product, optionally in the presence of a catalyst.

13. A process for preparing the compound of formula  $I\alpha$  ( $\equiv$  I where  $R^{10}$  = hydroxyl) as claimed in claim 1, which comprises reacting a pyrazole of formula VII in which the variables  $R^{11}$  and  $R^{12}$  are as defined in claim 1, or an alkali metal salt thereof,

with a tricyclic benzene compound of formula IX where  $L^4$  is a leaving group and the variables X, Y,  $R^1$  to  $R^5$  and l are as defined in claim 1

$$\begin{array}{c|c}
R^1 & R^2 \\
X & Y \\
Y & \\
R^5
\end{array}$$

in the presence of carbon monoxide, a catalyst and a base.

- 14. A composition, comprising a herbicidally effective amount of at least one compound of formula I or an agriculturally useful salt thereof as claimed in claim 1 and auxiliaries which are customary for formulating crop protection agents.
- 15. A process for preparing the composition defined in claim 14, which comprises mixing a herbicidally effective amount of at least one compound of formula I or an agriculturally useful salt

thereof and auxiliaries which are customary for formulating crop protection agents.

- 16. A method for controlling undesirable vegetation, which comprises allowing a herbicidally effective amount of at least one compound of formula I or an agriculturally useful salt thereof as claimed in claim 1 to act on plants, their habitat or on seed.
- 18. A tricyclic benzoic acid compound of formula VI

$$R^{1}$$
  $R^{2}$   $R^{3}$   $Y$   $Y$   $Y$   $R^{4}$ 

in which the variables X, Y,  $R^1$  to  $R^3$  and  $R^5$  and 1 are as defined in claim 1 and

 $R^4$ nitro, halogen, cyano,  $C_1-C_6$ -alkyl,  $C_1-C_6$ -haloalkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkoxy,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -haloal-C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl,  $C_1$ - $C_6$ -haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-haloalkylsulfonyl, aminosulfonyl,  $N-(C_1-C_6-alkyl)$  aminosulfonyl,  $N, N-di(C_1-C_6-alkyl)$  aminosulfo- $N-(C_1-C_6-alkylsulfonyl)$  amino,  $N-(C_1-C_6-haloalkylsulfo-alk$ nyl)amino,  $N-(C_1-C_6-alkyl)-N-(C_1-C_6-alkylsulfonyl)$ amino  $N-(C_1-C_6-alkyl)-N-(C_1-C_6-haloalkylsulfonyl)$ amino;

 $R^{17}$  is hydroxyl or a radical which can be removed by hydrolysis.

19. A tricyclic benzene compound of formula IX

$$\begin{array}{c|c}
R^1 & R^2 \\
R^3 & \\
Y & \\
R^5 & \\
\end{array}$$

in which the variables X, Y,  $R^1$  to  $R^3$  and  $R^5$  and  $R^5$  are as defined in claim 1 and

 $R^4$ halogen, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl,  $C_1$ - $C_6$ -haloalkyl, nitro,  $C_1-C_6$ -haloalkylthio,  $C_1-C_6$ -alkylsulfinyl,  $C_1$ — $C_6$ —alkylthio,  $C_1-C_6$ -haloalkylsulfinyl,  $C_1-C_6$ -alkylsulfonyl,  $C_1-C_6$ -haloalkylaminosulfonyl,  $N-(C_1-C_6-alkyl)$  aminosulfonyl, sulfonyl,  $N, N-di(C_1-C_6-alkyl)$  aminosulfonyl,  $N-(C_1-C_6-alkylsulfonyl)$  ami- $N-(C_1-C_6-haloalkylsulfonyl)$  amino,  $N-(C_1-C_6-al$ no,

 $ky1)-N-(C_1-C_6-alkylsulfonyl)$  amino or  $N-(C_1-C_6-al-ky1)-N-(C_1-C_6-haloalkylsulfonyl)$  amino;

- $R^5$  is hydrogen or  $C_1-C_6$ -alkyl;
- L<sup>4</sup> is halogen,  $C_1$ — $C_6$ —alkylsulfonyloxy,  $C_1$ — $C_6$ —haloalkylsulfonyloxy or phenylsulfonyloxy, where the phenyl ring of the lastmentioned radical may be unsubstituted or partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano,  $C_1$ — $C_4$ —alkyl,  $C_1$ — $C_4$ —haloalkyl,  $C_1$ — $C_4$ —alkoxy or  $C_1$ — $C_4$ —haloalkoxy.

## 20. An aniline compound of formula XV

$$R^1$$
  $R^2$   $R^3$   $Y$   $Y$   $XV$   $R^4$ 

in which the variables X, Y,  $\mathbb{R}^1$  to  $\mathbb{R}^3$  and  $\mathbb{R}^5$  and 1 are in each case as defined in claim 1 and

R<sup>4</sup> is nitro, halogen, cyano,  $C_1$ - $C_6$ -haloalkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkoxy,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -haloalkylsulfinyl,  $C_1$ - $C_6$ -haloalkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl, aminosulfonyl, N- $(C_1$ - $C_6$ -alkylsulfonyl, aminosulfonyl, N- $(C_1$ - $C_6$ -alkylsulfonyl) aminosulfonyl, N- $(C_1$ - $C_6$ -alkylsulfonyl) amino, N- $(C_1$ - $C_6$ -alkylsulfonyl) amino or N- $(C_1$ - $C_6$ -alkyl)-N- $(C_1$ - $C_6$ -alkylsulfonyl) amino or N- $(C_1$ - $C_6$ -alkyl)-N- $(C_1$ - $C_6$ -haloalkylsulfonyl) amino.

## 21. A nitrile compound of formula XVI

$$\begin{array}{c|c} R^1 & R^2 \\ \hline \\ NC & \\ \hline \\ R^5 & \\ \end{array}$$

in which the variables X, Y,  $\mathbb{R}^1$  to  $\mathbb{R}^3$  and 1 are in each case as defined in claim 1 and

 $C_1$  is nitro, halogen, cyano,  $C_1$ - $C_6$ -haloalkyl,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -haloalkylthio,  $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -haloalkinyl-sulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -haloalkylsulfonyl, amino-

R<sup>5</sup>

sulfonyl,  $N-(C_1-C_6-alkyl)$  aminosulfonyl,  $N,N-di-(C_1-C_6-al-kyl)$  aminosulfonyl,  $N-(C_1-C_6-alkyl)$  amino,  $N-(C_1-C_6-alkyl)$  amino,  $N-(C_1-C_6-alkyl)-N-(C_1-C_6-alkyl)$  amino or  $N-(C_1-C_6-alkyl)-N-(C_1-C_6-alkyl)$  amino; is hydrogen or  $C_1-C_6-alkyl$ .

23. The compound of formula I defined in claim 1, wherein  $R^{10}$  is hydroxyl, mercapto, halogen,  $OR^{13}$ ,  $SR^{13}$ ,  $SO_2R^{14}$  or  $NR^{15}R^{16}$ .

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